555

Access DB# 82485

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: PATEL SUDHAKER Examiner #: 77018 Date: 12/16/02
Art Unit: 1624 Phone Number 308 4709 Serial Number: 10078225
Mail Box and Bldg/Room Location: CM1 4E17 Results Format Preferred (circle): PAPER DISK E-MAIL

4E12

If more than one search is submitted, please prioritize searches in order of need.

****

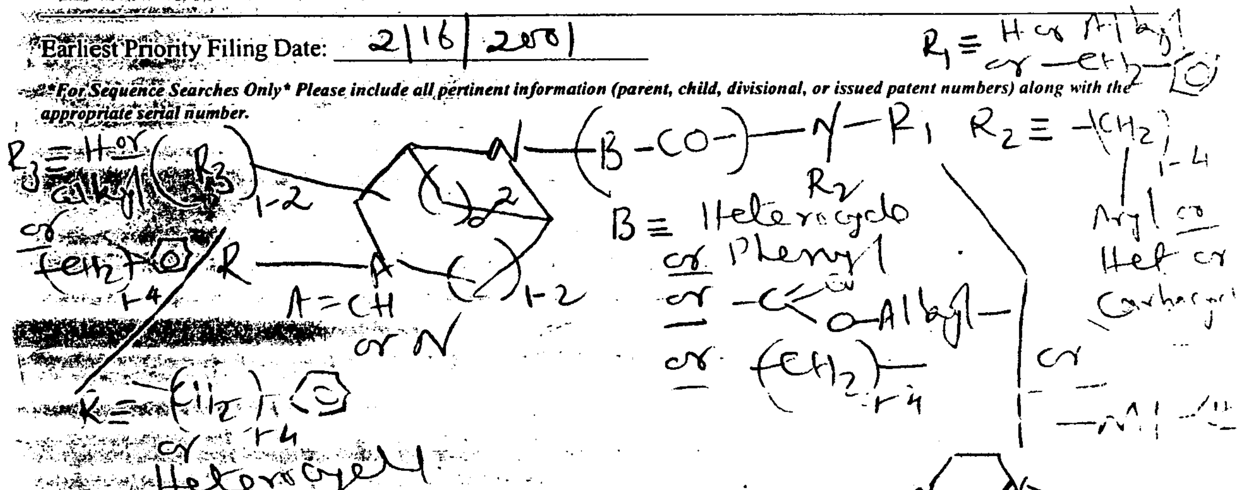
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: NOVEL HETEROCYCLIC SUBSTITUTED CARBONYL DERIVATIVES & THEIR USE AS DOPAMINE D3 RECEPTOR

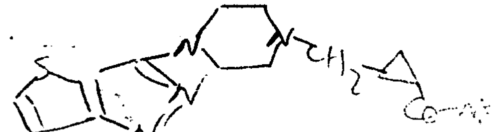
Inventors (please provide full names): HENDRIX JAMES et al

Earliest Priority Filing Date: 2/16/2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



Typical cpds see claim 66



need info @ cpds composition, & uses as SYNTHESIS (see claims 63-65) treating Nervous system disorders & Dopamine D1/D2/D3/D5 or 5HT receptors ... only 1 claims entered ... need 2 [illegible] ... CAPLUS ... CAS ...

****

STAFF USE ONLY		Type of Search		Vendors and cost where applicable	
Searcher:	~~POINT OF CONTACT:~~	NA Sequence (#)		STN	✓
Searcher Phone #:	PAUL SCHULWITZ TECHNICAL INFO. SPECIALIST	AA Sequence (#)		Dialog	
Searcher Location:	CM1 6B06 TEL. (703) 305-1954	Structure (#)	4	Questel/Orbit	
Date Searcher Picked Up:	12/18	Bibliographic		Dr.Link	
Date Completed:	12/19	Litigation		Lexis/Nexis	
Searcher Prep & Review Time:	180	Fulltext		Sequence Systems	
Clerical Prep Time:		Patent Family		WWW/Internet	
Online Time:		Other		Other (specify)	

PTO-1590 (8-01)

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                 NC2NC2/ES OR 197.58/RID OR NC6/ES OR NC2NC3/ES
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                 OC4 OR NC5 OR NCNC3 OR NC5-C6 OR C6-C6 OR NC4-C6 OR NCNC2-C6
                 OR OCOC2-C6 OR NOC3-SC4 OR C6 OR N2C3-SC4 OR NOC3-C6 OR
                 N2C3-C6 OR OC4-C6 OR NOC3-C6-C6 OR N2C3-NC5 OR NCOC2-C6 OR
                 NCNC2-NC5-C6 OR SC4-NC5 OR NSC3-C6)/ES
L6               STR
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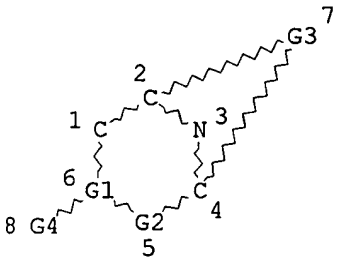
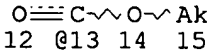


N @9 C @10 Cy @11




```
VAR G1=9/10
REP G2=(1-2) C
REP G3=(0-2) C
VAR G4=11/13
NODE ATTRIBUTES:
CONNECT IS E3  RC AT   9
CONNECT IS E3  RC AT  10
CONNECT IS E1  RC AT  15
DEFAULT MLEVEL IS ATOM
GGCAT   IS LOC  AT  15
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  15

STEREO ATTRIBUTES: NONE
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L9               STR
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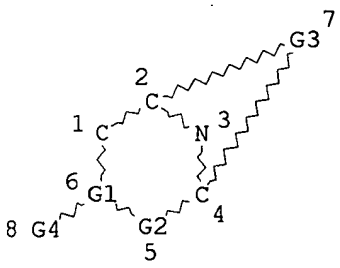

N @9 C @10 CH2-Hy Ak~Cb


```
VAR G1=9/10
REP G2=(1-2) C
REP G3=(0-2) C
VAR G4=11/13
NODE ATTRIBUTES:
CONNECT IS E3  RC AT   9
```

CONNECT IS E3 RC AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
GGCAT IS PCY UNS AT 12
GGCAT IS MCY UNS AT 14
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E7 C E2 O AT 12
ECOUNT IS E6 C AT 14

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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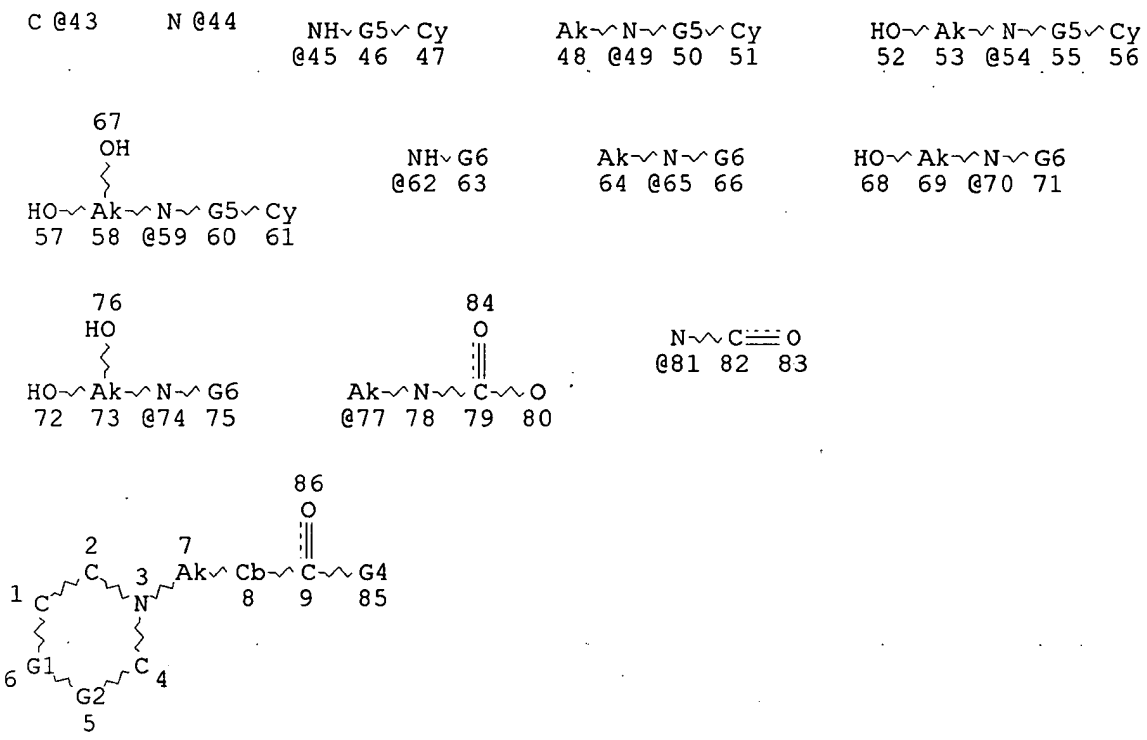
L11 4128 SEA FILE=REGISTRY ABB=ON PLU=ON L8 OR L10
L18 STR



VAR G1=43/44
REP G2=(1-2) C
VAR G4=45/62/49/54/59/65/70/74
REP G5=(0-15) A
VAR G6=77/81
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 7
CONNECT IS E1 RC AT 48
CONNECT IS E2 RC AT 53
CONNECT IS E3 RC AT 58
CONNECT IS E1 RC AT 64
CONNECT IS E2 RC AT 69

```
CONNECT IS E3  RC AT  73
CONNECT IS E2  RC AT  78
CONNECT IS E2  RC AT  81
DEFAULT MLEVEL IS ATOM
GGCAT   IS LIN  LOC  SAT  AT   7
GGCAT   IS MCY  LOC  SAT  AT   8
GGCAT   IS LOC  AT  48
GGCAT   IS LOC  AT  53
GGCAT   IS LOC  AT  58
GGCAT   IS LOC  AT  64
GGCAT   IS LOC  AT  69
GGCAT   IS LOC  AT  73
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS X2 C  AT   7

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  53

STEREO ATTRIBUTES: NONE
L19           2 SEA FILE=REGISTRY SUB=L11 SSS FUL L18
L20           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19

=> d ibib ab hitstr

L24  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         2002:658095  HCAPLUS
DOCUMENT NUMBER:          137:201331
TITLE:                    Preparation of heterocyclic substituted
                          cycloalkanecarboxamides as dopamine D3 receptor
                          ligands
INVENTOR(S):              Hendrix, James A.; Hemmerle, Horst; Urmann,
                          Matthias; Shutske, Gregory; Strupczewski, Joseph T.;
                          Bordeau, Kenneth J.; Jurcak, John G.; Nieduzak,
                          Thaddeus; Jackson, Sharon Anne; Angell, Paul; Fink,
                          David M.; Sabuco, Jean-Francois; Chiang, Yulin;
                          Collar, Nicola
PATENT ASSIGNEE(S):       Aventis Pharmaceuticals Inc., USA; Carey, James P.;
                          Lee, George E.
SOURCE:                   PCT Int. Appl., 392 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
     WO 2002066446      A1   20020829      WO 2002-US4713   20020215 <--
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-269672P P 20010216
GB 2001-17577 A 20010719 <--

OTHER SOURCE(S): MARPAT 137:201331

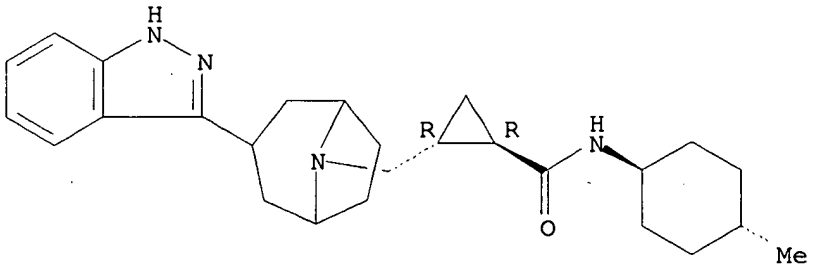
AB The title compds. [I; A = CH, N; n = 1-2; when n = 1, yr = 0 or 2; when n = 2, yr = 0; g = 1-2; R3 = H, alkyl, (CH2)wPh; w = 1-3; R = (un)substituted benzothienyl, pyrazinyl, pyridyl, etc.; BCO = (CR19C20)dCO, II, III, etc.; R19, R20 = H, OH, alkyl; R21-R23 = H, alkyl; d = 3-4; R1 = H, alkyl, etc.; R2 = 3-(imidazol-1-yl)propyl, trans-4-methylcyclohexyl, trans-4-ethylcyclohexyl, etc.] that display selective binding to dopamine D3 receptors, and therefore are useful in treating central nervous system disorders such as psychotic disorders, substance dependence, substance abuse, dyskinetic disorders (e.g., Parkinson s disease, parkinsonism, neuroleptic-induced tardive dyskinesia, Gilles de la Tourette syndrome and Huntington's disease), dementia, anxiety disorders, sleep disorders, circadian rhythm disorders and mood disorders, were prepd. E.g., a multi-step synthesis of trans/trans-IV was described.. Biol. data for more than 1000 compds. I were given. The subject invention is also directed towards processes for the prepn. of the compds. I as well as methods for making and using the compds. as imaging agents for dopamine D3 receptors.

IT **453559-44-9P 453559-45-0P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heterocyclic substituted cycloalkanecarboxamides as dopamine D3 receptor ligands)

RN 453559-44-9 HCAPLUS

CN Cyclopropanecarboxamide, 2-[[3-(1H-indazol-3-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]-N-(trans-4-methylcyclohexyl)-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

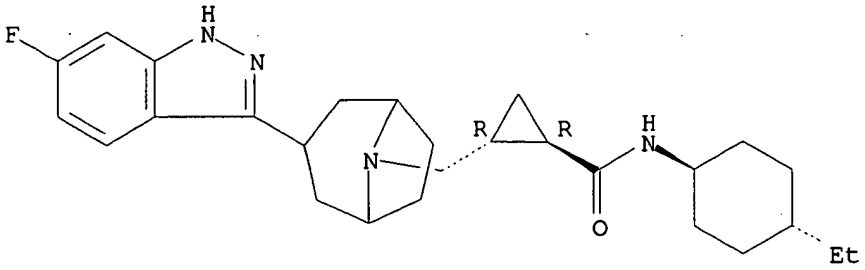
Relative stereochemistry.



RN 453559-45-0 HCAPLUS

CN Cyclopropanecarboxamide, N-(trans-4-ethylcyclohexyl)-2-[[3-(6-fluoro-1H-indazol-3-yl)-8-azabicyclo[3.2.1]oct-8-yl]methyl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT